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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883,210	0	6/19/2001	Hiroyuki Nitta	01701.00086	9856
22907	7590	09/30/2004		EXAMINER	
BANNER &		FF	NGUYEN, JOSEPH H		
SUITE 1100			ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC	20001	2815	•	

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·	Application No.	plicant(s)						
· · · · · · · · · · · · · · · · · · ·	09/883,210	HIROYUKI NITTA						
Office Action Summary	Examiner	Art Unit						
	Joseph Nguyen	2815						
The MAILING DATE of this communication ap Period for Reply	ppears on the cover she	et with the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, reply within the statutory minimum of will apply and will expire SIX (6 tute, cause the application to become.	nay a reply be timely filed of thirty (30) days will be considered timely. b) MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 17	May 2004.							
2a) ☐ This action is FINAL . 2b) ☑ Th	a) ☐ This action is FINAL . 2b) ☑ This action is non-final.							
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ☐ Claim(s) 1-41 is/are pending in the application 4a) Of the above claim(s) 4-41 is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	wn from consideration.	nt.						
Application Papers								
9) The specification is objected to by the Exami		abiasted to but be Evenings						
10) ☐ The drawing(s) filed on 19 June 2001 is/are: Applicant may not request that any objection to the								
Replacement drawing sheet(s) including the corre	-,,	-						
11) The oath or declaration is objected to by the								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received ents have been received riority documents have eau (PCT Rule 17.2(a))	d. d in Application No been received in this National Stage .						
Attachment(s)								
1) Notice of References Cited (PTO-892)		rview Summary (PTO-413)						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date 6/19/2001. 	08) 5) 🔲 Noti	er No(s)/Mail Date ce of Informal Patent Application (PTO-152) er:						
S. Patent and Trademark Office								



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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1-4, and 10-15 in the reply filed on 5/17/2004 is acknowledged. However, only claims 1-3 read on elected Species V illustrated in figures 6A-6E. Therefore, claims 1-3 are prosecuted whereas claims 4-41 are withdrawn from consideration.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(a) as being anticipated by Miyashita et al.

Regarding claim 1, Miyashita et al discloses on figures 9-11 a semiconductor device comprising a first insulation film provided above a semiconductor substrate; a conductive film TiSi2 selectively provided at least on a bottom of a groove section formed in the first insulation film; and a wiring layer W formed on the conductive film so as to have a space region between the wiring layer and at least one sidewall of the groove section.



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Regarding claim 2, Miyashita et al discloses on figures 9-11 the conductive film is barrier metal and has resistivity that is higher than that of the wiring layer.

Claims 1, 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Cronin et al.

Regarding claims 1, 3, Cronin et al discloses on figures 1 all the structures set forth in the claimed invention.

Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Kao et al.

Regarding claim 1, Kao et al discloses on figure 7 all the structures set forth in the claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (571) 272-1734. The examiner can normally be reached on Monday-Friday, 7:30 am- 4:30 pm

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communications.



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JN July 26, 2004

> JEROME/JACKSON PRIMARY EXAMINER